INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2004/002155
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F16C17/10, F16C33/10, F16C3	33/24, H02K7/08,	G11B19/20
According to International Patent Classification (IPC) or to both nation	onal classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by Int.Cl ⁷ F16C17/10, F16C33/10, F16C3	3/24, HOŽK7/Ó8,	•
	xtent that such documents ar Toroku Jitsuyo Shir Jitsuyo Shinan Toro	nan Koho 1994-2004
Electronic data base consulted during the international search (name of	of data base and, where pract	icable, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where		
Y JP 2000-352417 A (Sankyo Se 19 December, 2000 (19.12.00) Par. No. [0042]; Figs. 1 to (Family: none)		td.), 1-34
Y JP 7-274427 A (Zexel Corp.) 20 October, 1995 (20.10.95), Par. No. [0021] & DE 19523789 A1		
Y JP 9-222120 A (Koyo Seiko C 26 August, 1997 (26.08.97), Par. No. [0024] (Family: none)	o., Ltd.),	1,6,8,10
		· .
Further documents are listed in the continuation of Box C.	See patent family a	nnex.
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international "E" later document published after the international filing date or date and not in conflict with the application but cited to under the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered to be of particular particular relevance; the claimed invention cannot be considered to be of particular relevance; the claimed invention cannot be considered to be of particular relevance; the claimed invention cannot be considered to be of particular relevance.		
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	considered novel or of step when the document of particular "Y"	annot be considered to involve an inventive
"O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	combined with one or being obvious to a pers	more other such documents, such combination son skilled in the art the same patent family
Date of the actual completion of the international search 11 May, 2004 (11.05.04)	Date of mailing of the international search report 25 May, 2004 (25.05.04)	
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	
Facsimile No. Form PCT/ISA/210 (second sheet) (January 2004)	Telephone No.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/002155

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-61642 A (NSK Ltd.), 28 February, 2002 (28.02.02), Par. Nos. [0072], [0075], [0089] & US 2001/22869 A1 Par. Nos. [0112], [0119], [0139]	2-11,18-23
Y	JP 6-307437 A (NSK Ltd.), 01 November, 1994 (01.11.94), Par. Nos. [0012] to [0014], [0021] (Family: none)	3,5-17, 24-34
Y	JP 11-275807 A (NSK Ltd.), 08 October, 1999 (08.10.99), Par. No. [0023] (Family: none)	8,9
		(